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DATE MAILED: 11/03/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,194	07/24/2003	Sankar Sambasivan	7125	2708
22922 7	590 11/03/2006		EXAM	INER
	BOERNER VAN DEUI	SPEER, TIMOTHY M		
ATTN: LINDA KASULKE, DOCKET COORDINATOR				
1000 NORTH WATER STREET			ART UNIT	PAPER NUMBER
SUITE 2100			1775	
MILWAUKEE	, WI 53202			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/627,194	SAMBASIVAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Timothy M. Speer	1775				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status	÷					
1) Responsive to communication(s) filed on $\underline{0}$	7 August 2006.					
2a) ☐ This action is FINAL . 2b) ☒ T	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allo	·	•				
closed in accordance with the practice unde	er <i>Ex par</i> te Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims		·				
4)⊠ Claim(s) <u>1-17 and 22</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are without	drawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-17 and 22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers		·				
9) The specification is objected to by the Exam	niner.					
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to b	y the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor	•					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).				
 Certified copies of the priority docum 	1. Certified copies of the priority documents have been received.					
Certified copies of the priority docum	•					
3. Copies of the certified copies of the p	· · · · · ·	received in this National Stage				
application from the International Bur						
* See the attached detailed Office action for a	list of the certified copies not i	eceived.				
Attachment(s)		<u>.</u> c				
1) Notice of References Cited (PTO-892)	. – _	ummary (PTO-413))/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) 🔲 Notice of In	formal Patent Application				
Paper No(s)/Mail Date	6) 🔲 Other:	<u>-</u> :				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-17 and 22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. The terms "substantially amorphous" and "substantially non-porous" are considered to be indefinite, since the scope of these terms cannot be ascertained by one having ordinary skill in the art. The term "substantially" is a broad term. See MPEP 2173.05(b)(D). The present claims rely upon the terms at issue to define the invention. The terms, however, are not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. There is no way to determine what deviation from "amorphous" and "non-porous" is intended by the terms at issue. Accordingly, the scope of these terms cannot be determined, thus rendering the claims indefinite.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1, 2, 4-9, 11-15, 17 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Colebourne (USPN 4,005,232).

Colebourne teaches aluminophosphate coatings which may be formed on a variety of substrates (abstract for instance). Colebourne teaches that such substrates include metal substrates, as presently claimed. Therefore, it would have been obvious to one having ordinary skill in the art to form the coating of Colebourne on a metal substrate, such Colebourne suggests such constructions. Further, Colebourne teaches that the coatings may include carbon particles, as presently claimed (col. 8, line 64).

Regarding the terms "substantially amorphous" and "substantially non-porous," as noted above, these terms are broad. Therefore, it is the Examiner's positions that the coatings of Colebourne meet these limitations. Regarding the claimed "component" between the substrate and film, since the coatings and substrates of Colebourne are the same as those presently claimed, it is the Examiner's position that the coating will interact with the substrate to form such a "component."

In light of the above, it is the Examiner's position that the present claims are prima facie obvious in view of Colebourne.

6. Claims 3, 10, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Colebourne in view of Tunker (USPN 4,929,493).

Colebourne was discussed above and fails explicitly the inclusion therein of metal particles. Colebourne, however, teaches that the coatings may include "additional components," such as pigments (col. 8, lines 15-17). Tunker teaches that metal pigment particles may be added to phosphate coatings in order to impart color thereto (col. 2, lines 53-58, for instance).

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Therefore, it would have been obvious to one having ordinary skill in the art to incorporate metal particles into the coatings of Colebourne, since Colebourne suggests the inclusion of pigments and Tunker teaches that metal pigments may be incorporated into phosphate coatings to impart color thereto.

In light of the above, it is the Examiner's position that the present claims are prima facie obvious in view of the applied prior art references.

Conclusion

7. Applicant's arguments filed 12/19/05 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy M. Speer whose telephone number is 571-272-8385. The examiner can normally be reached on M-Th, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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like assistance from a USPTO Customer Service Representative or access to the automated

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Timothy M. Speer

JENNIFER MCNEIL SUPERVISORY PATENT EXAMINER

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